Federal Operating Permit
Article 1

This permit is based upon the requirements of Title V of the Federal Clean Air Act and Chapter 80, Article 1 of the Commonwealth of Virginia Regulations for the Control and Abatement of Air Pollution. Until such time as this permit is reopened and revised, modified, revoked, terminated or expires, the permittee is authorized to operate in accordance with the terms and conditions contained herein. This permit is issued under the authority of Title 10.1, Chapter 13, §10.1-1322 of the Air Pollution Control Law of Virginia. This permit is issued consistent with the Administrative Process Act, and 9 VAC 5-80-50 through 9 VAC 5-80-300 of the State Air Pollution Control Board Regulations for the Control and Abatement of Air Pollution of the Commonwealth of Virginia.

Authorization to operate a Stationary Source of Air Pollution as described in this permit is hereby granted to:

Permittee Name:	Johns Manville
Facility Name:	Johns Manville
Facility Location:	182 Johns Manville Drive Edinburg, Virginia
Registration Number:	80764
Permit Number:	VRO80764

July 19, 2005
Effective Date

July 18, 2010
Expiration Date

R. Bradley Chewning for
Director, Department of Environmental Quality

June 30, 2005
Signature Date

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I. Facility Information

Permittee
Johns Manville
182 Johns Manville Drive
Edinburg, Virginia 22824

Responsible Official
Scott Huston
Plant Manager

Facility
Johns Manville
182 Johns Manville Drive
Edinburg, Virginia 22824

Contact Person
John Tefft
Environmental Coordinator
540-984-6213

County-Plant Identification Number: 51-171-0046

Facility Description: NAICS 327992 - Ground or Treated Mineral and Earth Manufacturing

Johns Manville operates a Fesco board manufacturing facility in Edinburg, Virginia. The facility produces Fesco board for industrial and commercial roofing insulation. The basic operations at the facility include raw material handling and processing, product drying and product finishing and packaging.

II. Emission Units

Equipment to be operated consists of:

Emission Unit ID	Stack ID	Emission Unit Description	Size/Rated Capacity*	Pollution Control Device (PCD) Description	PCD ID	Pollutant Controlled	Applicable Permit Date
Raw Material Handling and Processing							
P-0001	S-0001	Mix Stations	650 lb dry binder/hr	Fabric Filter	BH-0001	PM/PM-10	8/20/73
P-0002	S-0002	Two (2) Perlite Silos	685 tons perlite ore (total)	Fabric Filter	BH-0002	PM/PM-10	8/20/73
P-0022	S-0022 thru S-0025**	7 MMBtu/hr Natural Gas-Fired Perlite Expander	5,000 lb perlite/hr	Cyclone	CC-0022	PM/PM-10	8/20/73
				Fabric Filter	BH-0022 - BH-0025**		
P-0023	S-0022 thru S-0025**	7 MMBtu/hr Natural Gas-Fired Perlite Expander	5,000 lb perlite/hr	Cyclone	CC-0023	PM/PM-10	8/20/73
				Fabric Filter	BH-0022 - BH-0025**		
P-0024	S-0022 thru S-0025**	7 MMBtu/hr Natural Gas-Fired Perlite Expander	5,000 lb perlite/hr	Cyclone	CC-0024	PM/PM-10	8/20/73
				Fabric Filter	BH-0022 - BH-0025**		
P-0025	S-0022 thru S-0025**	7 MMBtu/hr Natural Gas-Fired Perlite Expander	5,000 lb perlite/hr	Cyclone	CC-0025	PM/PM-10	8/20/73
				Fabric Filter	BH-0022 - BH-0025**		
P-0026	S-0022 thru S-0025**	7 MMBtu/hr Natural Gas-Fired Perlite Expander	5,000 lb perlite/hr	Cyclone	CC-0026	PM/PM-10	8/20/73
				Fabric Filter	BH-0022 - BH-0025**		
P-0027	S-0022 thru S-0025**	7 MMBtu/hr Natural Gas-Fired Perlite Expander	5,000 lb perlite/hr	Cyclone	CC-0027	PM/PM-10	8/20/73
				Fabric Filter	BH-0022 - BH-0025**		

Emission Unit ID	Stack ID	Emission Unit Description	Size/Rated Capacity*	Pollution Control Device (PCD) Description	PCD ID	Pollutant Controlled	Applicable Permit Date
Product Drying							
P-0009		Five (5) Zone Fesco Board Dryer with a total gas-fired rated capacity of 210 MMBtu/hr	30,000 lb Fesco board/hr	-	-	-	8/20/73
	S-0009	Zone 1 Fesco Board Dryer					
	S-0010	Zone 2 Fesco Board Dryer					
	S-0014	Zone 3 Fesco Board Dryer		Wet Scrubber	SC-0009	PM/PM-10	
		Zone 4 Fesco Board Dryer					
		Zone 5 Fesco Board Dryer					
Product Finishing and Packaging							
P-0003, P-0004, P-0006 thru P-0008 and P-0030c	S-0003	Trim saws, Fesco handling, utility saws and edge saw	30,300 lb Fesco board/hr	Cyclone	CC-0003	PM/PM-10	8/20/73
				Fabric Filter	BH-0003		
P-0043	S-0043	Board Separators	2,600 lb Fesco board/hr	Fabric Filter	BH-0043	PM/PM-10	7/23/92
P-0030a	S-0030	Taper saw	5,000 lb Fesco board/hr	Fabric Filter	BH-0030	PM/PM-10	7/23/92
P-0030b and P-0031		Cant saw and accessory line Fesco handling					-

*The Size/Rated capacity is provided for informational purposes only and is not an applicable requirement.
**The six perlite expanders (P-0022 - P-0027) each exhaust through one cyclone (CC-0022 - CC-0027) followed by a common plenum, four fabric filters (BH-0022 - BH-0025) and four exhaust stacks (S-0022 - S-0025).

III. Process Equipment Requirements – Raw Material Handling and Processing (P-0001, P-0002 and P-0022 - P-0027)

A. Limitations

1. The approved fuel for the perlite expanders (P-0022 - P-0027) is natural gas. A change in the fuel may require a permit to modify and operate.
(9 VAC 5-80-110)

2. Particulate emissions from the mix stations stack (S-0001), the perlite silos stack (S-0002) and each perlite expander (P-0022 - P-0027) shall not exceed the process weight limit as determined by the following equation:

$$E = 4.10P^{0.67}$$

where:

E = emission rate in lb/hr
P = process weight rate in tons/hr

(9 VAC 5-80-110 and 9 VAC 5-40-260)

3. Particulate emissions from the mix stations (P-0001) and the perlite silos (P-0002) shall be controlled by a fabric filter. Each fabric filter shall be provided with adequate access for inspection.
(9 VAC 5-80-110)

4. Particulate emissions from the perlite expanders (P-0022 - P-0027) shall be controlled by six cyclones (one per each perlite expander) followed by a common plenum and four fabric filters. Each cyclone and fabric filter shall be provided with adequate access for inspection.
(9 VAC 5-80-110)

5. Visible emissions from each perlite expander stack (S-0022 - S-0025), the mix stations stack (S-0001) and the perlite silos stack (S-0002) shall not exceed twenty (20) percent opacity except during one six-minute period in any one hour in which visible emissions shall not exceed thirty (30) percent opacity. This condition applies at all times except during startup, shutdown, or malfunction.
(9 VAC 5-80-110 and 9 VAC 5-50-80)

B. Monitoring and Recordkeeping

1. The fabric filters (BH-0001, BH-0002 and BH-0022 - BH-0025) shall be equipped with a device to continuously measure the differential pressure drop across the fabric filter. The device shall be installed in an accessible location and shall be maintained by the permittee such that it is in proper working order at all times.
(9 VAC 5-80-110)

2. An annual visual internal inspection shall be conducted on the cyclones (CC-0022 - CC-0027) by the permittee to insure structural integrity. The permittee shall record:

   a. The date, time and name of the person performing each inspection;

   b. The results of the inspection; and

   c. The maintenance performed, if required.

   (9 VAC 5-80-110)

3. The permittee shall perform a weekly inspection of the perlite silos stack (S-0002). Each inspection shall include an observation of the presence of visible emissions and the pressure drop across each fabric filter. If during the inspection visible emissions are observed, a visible emissions evaluation (VEE) shall be conducted in accordance with 40 CFR Part 60, Appendix A, EPA Method 9, unless corrective action is taken such that the stack resumes operation with no visible emissions. The VEE shall be conducted for a minimum of six (6) minutes. If any of the observations exceed twenty (20) percent, the VEE shall be conducted for a total of sixty (60) minutes. All observations, VEE results and corrective actions taken shall be recorded.
(9 VAC 5-80-110)

4. The permittee shall perform periodic monitoring on each perlite expander stack (S-0022 - S-0025) as follows:

   a. Conduct a daily inspection of each perlite expander stack (S-0022 - S-0025). Each inspection shall include an observation of the presence of visible emissions and the pressure drop across each fabric filter. If during the inspection visible emissions are observed, a visible emissions evaluation (VEE) shall be conducted in accordance with 40 CFR Part 60, Appendix A, EPA Method 9, unless corrective action is taken such that the stack resumes operation with no visible emissions. The VEE shall be conducted for a minimum of six (6) minutes. If any of the observations exceed twenty (20) percent, the VEE shall be conducted for a total of sixty (60) minutes or until a violation of the opacity limit for that stack has been documented, whichever period is shorter.

b. If the inspections conducted during thirty (30) consecutive days show no visible emissions for a particular stack, the permittee may reduce the monitoring frequency to once per week for that stack. Anytime the weekly inspections show visible emissions, or when requested by DEQ, the monitoring frequency shall be increased to once per day for that stack.

All observations, VEE results and corrective actions taken shall be recorded.
(9 VAC 5-80-110)

5. The permittee shall perform a weekly inspection of the mix stations stack (S-0001). Each inspection shall include an observation of the presence of visible emissions and the pressure drop across the fabric filter. If during the inspection visible emissions are observed, timely corrective action shall be taken such that the stack resumes operation with no visible emissions. All observations and corrective actions taken shall be recorded.
(9 VAC 5-80-110)

6. The permittee shall maintain records of all emission data and operating parameters necessary to demonstrate compliance with this permit. The content of and format of such records shall be arranged with the Director, Valley Region. These records shall include, but are not limited to:

   a. The pollutant-specific emission factors and the equations used to demonstrate compliance with Condition III.A.2.

   b. Fuel usage records for the perlite expanders.

   c. The log of annual inspections for the cyclones as required by Condition III.B.2.

   d. Inspection records as required by Condition III.B.3, Condition III.B.4 and Condition III.B.5.

   These records shall be available on site for inspection by the DEQ and shall be current for the most recent (5) years.
   (9 VAC 5-80-110)

C. Testing

If testing is conducted in addition to the monitoring specified in this permit, the permittee shall use the following methods in accordance with procedures approved by the DEQ as follows:

Pollutant	Test Method (40 CFR Part 60, Appendix A)
PM/PM-10	EPA Method 5 or 17
Visible Emission	EPA Method 9

(9 VAC 5-80-110)

IV. Process Equipment Requirements – Product Drying (P-0009)

A. Limitations

1. The approved fuel for the Fesco board dryer (P-0009) is natural gas. A change in the fuel may require a permit to modify and operate.
(9 VAC 5-80-110)

2. The production of Fesco board shall not exceed 110,000 tons per year, calculated monthly as the sum of each consecutive 12-month period.
(9 VAC 5-80-110)

3. Particulate emissions from the Fesco board dryer zones 3, 4 and 5 shall be controlled by a wet scrubber.
(9 VAC 5-80-110)

4. Emissions from the Fesco board dryer zone 1 stack (S-0009) shall not exceed the limits specified below:

Sulfur Dioxide	110.9	lbs/hr		
Particulate Matter	2.5	lbs/hr	9.2	tons/yr

(9 VAC 5-80-110, 9 VAC 5-40-260 and 9 VAC 5-40-280)

5. Emissions from the Fesco board dryer zone 2 stack (S-0010) shall not exceed the limits specified below:

Sulfur Dioxide	110.9	lbs/hr		
Particulate Matter	6.5	lbs/hr	23.8	tons/yr

(9 VAC 5-80-110, 9 VAC 5-40-260 and 9 VAC 5-40-280)

6. Emissions from the wet scrubber stack (S-0014) shall not exceed the limits specified below:

Sulfur Dioxide	332.6	lbs/hr		
Particulate Matter	16.2	lbs/hr	59.4	tons/yr

(9 VAC 5-80-110, 9 VAC 5-40-260 and 9 VAC 5-40-280)

7. Visible emissions from the Fesco board dryer zones 1 and 2 stacks (S-0009 and S-0010) and the wet scrubber stack (S-0014) shall not exceed twenty (20) percent opacity except during one six-minute period in any one hour in which visible emissions shall not exceed thirty (30) percent opacity. This condition applies at all times except during startup, shutdown, or malfunction.
(9 VAC 5-80-110 and 9 VAC 5-50-80)

8. Fesco board dryer (P-0009) emissions shall be controlled by proper operation and maintenance. Fesco board dryer operators shall be trained in the proper operation of all such equipment. Training shall consist of a review and familiarization of the facility's operating instructions, at minimum.
(9 VAC 5-80-110 and 9 VAC 5-50-20)

B. Monitoring and Recordkeeping

1. The Fesco board dryer (P-0009) shall be equipped with devices to continuously measure the temperature, fan speed and stack damper position for each Fesco board dryer zone. Each monitoring device shall be installed, maintained, calibrated and operated in accordance with approved procedures which shall include, as a minimum, the manufacturer's written requirements or recommendations. If the manufacturer's written requirements or recommendations are not available, the permittee shall establish their own written procedures. Each monitoring device shall be provided with adequate access for inspection and shall be in operation when the control device is operating.
(9 VAC 5-80-110)

2. The permittee shall perform periodic monitoring on the devices used to continuously measure the temperature, fan speed and stack damper position for each Fesco board dryer zone as follows:

	Parameter No. 1	Parameter No. 2	Parameter No. 3
Parameter	Zone Temperature (°F)	Zone Fan Speed (% of capacity)	Stack Damper Position (% open)
Parameter Range	Zone 1: ≤ 800	Zone 1: ≥ 85	Zone 1: 100
	Zone 2: ≤ 775	Zone 2: ≥ 84	Zone 2: ≥ 50
	Zone 3: ≤ 650	Zone 3: ≥ 70	Zone 3: 0
	Zone 4: ≤ 590	Zone 4: ≥ 60	Zone 4: 0
	Zone 5: ≤ 505	Zone 5: ≥ 50	Zone 5: 0
Monitoring and Recordkeeping	The monitoring device shall be observed by the permittee with a frequency of not less than once per day.	The monitoring device shall be observed by the permittee with a frequency of not less than once per day.	The monitoring device shall be observed by the permittee with a frequency of not less than once per day.

	Parameter No. 1	Parameter No. 2	Parameter No. 3
Monitoring and Recordkeeping	If the measured zone temperature is greater than 800°F for zone 1, greater than 775°F for zone 2, greater than 650°F for zone 3, greater than 590°F for zone 4 or greater than 505°F for zone 5, the permittee shall take corrective action beginning with an evaluation of the deviation to determine the action required to correct the situation. All deviations and corrective actions taken shall be recorded and the permittee shall notify the Director, Valley Region. The permittee shall keep a log of all observations.	If the measured zone fan speed is less than 85% of capacity for zone 1, less than 84% for zone 2, less than 70% for zone 3, less than 60% for zone 4 or less than 50% for zone 5, the permittee shall take corrective action beginning with an evaluation of the deviation to determine the action required to correct the situation. All deviations and corrective actions taken shall be recorded and the permittee shall notify the Director, Valley Region. The permittee shall keep a log of all observations.	If the measured stack damper position is less than 100% open for zone 1, less than 50% open for zone 2 or greater than 0% open for zones 3, 4 or 5, the permittee shall take corrective action beginning with an evaluation of the deviation to determine the action required to correct the situation. All deviations and corrective actions taken shall be recorded and the permittee shall notify the Director, Valley Region. The permittee shall keep a log of all observations.

(9 VAC 5-80-110)

3. The permittee shall perform periodic monitoring on the Fesco board dryer zones 1 and 2 stacks (S-0009 and S-0010) as follows:

   a. Conduct a daily inspection of each Fesco board dryer zone stack to determine the presence of visible emissions. If during the inspection visible emissions are observed, the permittee shall take one of the following actions:

      (1) Timely corrective action shall be initiated within four hours of the inspection such that the stack operates with no visible emissions within 24 hours of the initial observation; or

      (2) A visible emissions evaluation (VEE) shall be conducted on the stack in accordance with 40 CFR Part 60, Appendix A, EPA Method 9. The VEE shall be conducted for a minimum period of six (6) minutes. If any of the observations exceed the applicable opacity limit for that stack, the VEE shall be conducted for a total of sixty (60) minutes or until a violation of the opacity limit for that stack has been documented, whichever period is shorter.

   b. If the 60-minute VEE conducted results in a violation of the opacity limit for that stack, timely corrective action shall be taken such that the stack resumes operation with no visible emissions and the permittee shall notify the Director, Valley Region.

c. If the permittee records three 60-minute VEE violations of the opacity limit for a particular stack within a calendar year quarter, a performance test shall be conducted for particulate matter (PM) on the Fesco board dryer zone stack which exceeded the limit using the reference methods specified below to determine compliance with the applicable emission limit contained in Condition IV.A.4 or Condition IV.A.5. The test shall be performed and demonstrate compliance within 90 days of the exceedance of the opacity limit or within one calendar year of the previous stack test of that particular stack, whichever occurs later. The test shall be conducted and reported and data reduced as set forth in 9 VAC 50-50-30 and 40 CFR Part 60, Appendix A, EPA Method 5 and 40 CFR Part 51, Appendix M, EPA Method 202. The details of the test are to be arranged with the Director, Valley Region. The permittee shall submit a test protocol at least 30 days prior to testing. Two copies of the test results shall be submitted to the Director, Valley Region, within 60 days after test completion and shall conform to the test report format enclosed with this permit.

d. If the inspections conducted during thirty (30) consecutive days show no visible emissions for a particular stack, the permittee may reduce the monitoring frequency to once per week for that stack. Anytime visible emissions are observed and verified by a certified Method 9 observer, the weekly inspections show visible emissions, or when requested by DEQ, the monitoring frequency shall be increased to once per day for that stack.

(9 VAC 5-80-110)

4. When a performance test is required by Condition IV.B.3.c, the permittee shall conduct a concurrent VEE, in accordance with 40 CFR Part 60, Appendix A, EPA Method 9, on the Fesco board dryer zone stack being tested. Each test shall consist of 30 sets of 24 consecutive observations (at 15 second intervals) to yield a six-minute average. The details of the test are to be arranged with the Director, Valley Region. The permittee shall submit a test protocol at least 30 days prior to testing. Should conditions prevent concurrent opacity observations, the Director, Valley Region, shall be notified in writing, within seven days, and visible emissions testing is to be rescheduled within 30 days. Rescheduled testing is to be conducted under the same conditions (as possible) as the performance test. Two copies of the test results shall be submitted to the Director, Valley Region, within 60 days after test completion and shall conform to the test report format enclosed with this permit.
(9 VAC 5-80-110)

5. The wet scrubber shall be equipped with devices to continuously measure the scrubber water flow rate and the differential pressure drop across the scrubber demister pads. Each monitoring device shall be installed, maintained, calibrated and operated in accordance with approved procedures which shall include, as a minimum, the manufacturer's written requirements or recommendations. If the manufacturer's written requirements or recommendations are not available, the permittee shall

establish their own written procedures. Each monitoring device shall be provided with adequate access for inspection and shall be in operation when the control device is operating.
(9 VAC 5-80-110)

6. The permittee shall perform periodic monitoring on the wet scrubber monitoring devices used to continuously measure the scrubber water flow rate and the differential pressure drop across the scrubber demister pads as follows:

	Parameter No. 1	Parameter No. 2
Parameter	Scrubber Water Flow Rate (gallons per minute)	Differential Pressure Drop (% of 1.0 inch of water)
Parameter Range	Minimum flow rate of 500 gallons per minute	Maximum differential pressure drop of 80% of 1.0 inch of water
Monitoring and Recordkeeping	The monitoring device shall be observed by the permittee with a frequency of not less than once per day. If the measured scrubber water flow rate is less than 500 gallons per minute, the permittee shall take corrective action beginning with an evaluation of the deviation to determine the action required to correct the situation. All deviations and corrective actions taken shall be recorded and the permittee shall notify the Director, Valley Region. The permittee shall keep a log of all observations.	The monitoring device shall be observed by the permittee with a frequency of not less than once per day. If the measured differential pressure drop is greater than 80% of 1.0 inch of water, the permittee shall take corrective action beginning with an evaluation of the deviation to determine the action required to correct the situation. All deviations and corrective actions taken shall be recorded and the permittee shall notify the Director, Valley Region. The permittee shall keep a log of all observations.

(9 VAC 5-80-110)

7. The permittee shall perform periodic monitoring on the wet scrubber stack (S-0014) as follows:

   a. Conduct a daily inspection of the wet scrubber stack to determine the presence of visible emissions. If during the inspection visible emissions are observed, the permittee shall take one of the following actions:

(1) Timely corrective action shall be initiated within four hours of the inspection such that the stack operates with no visible emissions within 24 hours of the initial observation; or

(2) A visible emissions evaluation (VEE) shall be conducted on the stack in accordance with 40 CFR Part 60, Appendix A, EPA Method 9. The VEE shall be conducted for a minimum period of six (6) minutes. If any of the observations exceed the applicable opacity limit for the stack, the VEE shall be conducted for a total of sixty (60) minutes or until a violation of the opacity limit for the stack has been documented, whichever period is shorter.

b. If the 60-minute VEE conducted results in a violation of the opacity limit for the stack, timely corrective action shall be taken such that the stack resumes operation with no visible emissions and the permittee shall notify the Director, Valley Region.

c. If the permittee records three 60-minute VEE violations of the opacity limit for the stack within a calendar year quarter, a performance test shall be conducted for particulate matter (PM) on the wet scrubber stack (S-0014) using the reference methods specified below to determine compliance with the emission limit contained in Condition IV.A.6. The test shall be performed and demonstrate compliance within 90 days of the exceedance of the opacity limit or within one calendar year of the previous stack test, whichever occurs later. The test shall be conducted and reported and data reduced as set forth in 9 VAC 50-50-30 and 40 CFR Part 60, Appendix A, EPA Method 5 and 40 CFR Part 51, Appendix M, EPA Method 202. The details of the test are to be arranged with the Director, Valley Region. The permittee shall submit a test protocol at least 30 days prior to testing. Two copies of the test results shall be submitted to the Director, Valley Region, within 60 days after test completion and shall conform to the test report format enclosed with this permit.

d. If the inspections conducted during thirty (30) consecutive days show no visible emissions for the stack, the permittee may reduce the monitoring frequency to once per week for the stack. Anytime visible emissions are observed and verified by a Method 9 observer, the weekly inspections show visible emissions, or when requested by DEQ, the monitoring frequency shall be increased to once per day for the stack.

(9 VAC 5-80-110)

8. When a performance test is required by Condition IV.B.7.c, the permittee shall conduct a concurrent VEE, in accordance with 40 CFR Part 60, Appendix A, EPA Method 9, on the wet scrubber stack (S-0014). Each test shall consist of 30 sets of 24 consecutive observations (at 15 second intervals) to yield a six-minute average. The details of the test are to be arranged with the Director, Valley Region. The permittee

shall submit a test protocol at least 30 days prior to testing. Should conditions prevent concurrent opacity observations, the Director, Valley Region, shall be notified in writing, within seven days, and visible emissions testing is to be rescheduled within 30 days. Rescheduled testing is to be conducted under the same conditions (as possible) as the performance test. Two copies of the test results shall be submitted to the Director, Valley Region, within 60 days after test completion and shall conform to the test report format enclosed with this permit.
(9 VAC 5-80-110)

9. The permittee shall maintain records of all emission data and operating parameters necessary to demonstrate compliance with this permit. The content of and format of such records shall be arranged with the Director, Valley Region. These records shall include, but are not limited to:

   a. Fuel usage records for the Fesco board dryer.

   b. The monthly and annual throughput of natural gas (in million cubic feet) for the Fesco board dryer (P-0009). The annual throughput shall be calculated monthly as the sum of each consecutive 12-month period.

   c. The monthly and annual production of Fesco board. The annual production shall be calculated monthly as the sum of each consecutive 12-month period.

   d. A log of daily observations and all deviations and corrective actions taken as required in Condition IV.B.2.

   e. A log of inspections, all corrective actions taken and the results of all VEEs and performance tests performed on each Fesco board dryer stack as required in Condition IV.B.3.

   f. The results of all VEEs performed on each Fesco board dryer stack as required in Condition IV.B.4.

   g. A log of daily observations and all deviations and corrective actions taken as required in Condition IV.B.6.

   h. A log of inspections, all corrective actions taken and the results of all VEEs and performance tests performed on the wet scrubber stack (S-0014) as required in Condition IV.B.7.

   i. The results of all VEEs performed on the wet scrubber stack (S-0014) as required in Condition IV.B.8.

j. The results of the performance test and concurrent VEE as required in Condition IV.C.1 and Condition IV.C.2.

These records shall be available on site for inspection by the DEQ and shall be current for the most recent five (5) years.
(9 VAC 5-80-110)

10. The permittee shall maintain records of the required Fesco board dryer (P-0009) training including a statement of time, place and nature of training provided. The permittee shall have available good written operating procedures and a maintenance schedule for the Fesco board dryer (P-0009). These procedures shall be based on the facility's recommendations, at minimum. All records required by this condition shall be kept on site and made available for inspection by the DEQ and shall be current for the most recent five (5) years.
(9 VAC 5-80-110)

C. Testing

1. Once each permit term, at a frequency not to exceed five years from the previous performance test that demonstrated compliance with the PM emission limits, a performance test shall be conducted for particulate matter (PM) on the Fesco board dryer zones 1 and 2 stacks (S-0009 and S-0010) and the wet scrubber stack (S-0014) using the reference methods specified below. The test shall be performed and demonstrate compliance with the particulate emission limits contained in Condition IV.A.4, Condition IV.A.5 and Condition IV.A.6, respectively. The test shall be conducted and reported and data reduced as set forth in 9 VAC 50-50-30 and 40 CFR Part 60, Appendix A, EPA Method 5 and 40 CFR Part 51, Appendix M, EPA Method 202. The details of the test are to be arranged with the Director, Valley Region. The permittee shall submit a test protocol at least 30 days prior to testing. Two copies of the test results shall be submitted to the Director, Valley Region, within 60 days after test completion and shall conform to the test report format enclosed with this permit.
(9 VAC 5-80-110)

2. Concurrently with the performance test, a VEE shall be conducted on the Fesco board dryer zones 1 and 2 stacks (S-0009 and S-0010) and the wet scrubber stack (S-0014) in accordance with 40 CFR Part 60, Appendix A, EPA Method 9. Each test shall consist of 30 sets of 24 consecutive observations (at 15 second intervals) to yield a six-minute average. The details of the test are to be arranged with the Director, Valley Region. The permittee shall submit a test protocol at least 30 days prior to testing. Should conditions prevent concurrent opacity observations, the Director, Valley Region, shall be notified in writing, within seven days, and visible emissions testing is to be rescheduled within 30 days. Rescheduled testing is to be conducted under the same conditions (as possible) as the performance test. Two copies of the test results shall be submitted to the Director, Valley Region, within 60 days after test completion and shall conform to the test report format enclosed with this permit.
(9 VAC 5-80-110)

3. If testing is conducted in addition to the monitoring specified in this permit, the permittee shall use the following test methods in accordance with procedures approved by the DEQ as follows:

Pollutant	Test Method (40 CFR Part 60, Appendix A)
SO_2	EPA Method 6
PM/PM-10 (Filterable)	EPA Method 5 or 17
PM/PM-10 (Condensible)	EPA Method 202
Visible Emission	EPA Method 9

(9 VAC 5-80-110)

V. Process Equipment Requirements - Product Finishing and Packaging (P-0003, P-0004, P-0006 - P-0008, P-0030a - P-0030c, P-0031 and P-0043)

A. Limitations

1. Particulate emissions from the trim saws, Fesco handling, utility saws and edge saw stack (S-0003), the board separators stack (S-0043) and the taper and cant saws and accessory line Fesco handling stack (S-0030) shall not exceed the process weight limit as determined by the following equation:

$$E = 4.10P^{0.67}$$

where:

E = emission rate in lb/hr
P = process weight rate in tons/hr

(9 VAC 5-40-260 and 9 VAC 5-80-110)

2. Particulate emissions from the board separators (P-0043) and the cant saw and accessory line Fesco handling (P-0030b and P-0031) shall be controlled by a fabric filter. Each fabric filter shall be provided with adequate access for inspection.
(9 VAC 5-80-110)

3. Particulate emissions from the taper saw operation (P-0030a) shall be controlled by a Pactecon Model 214-6 fabric filter baghouse or equivalent with a design collection efficiency of 99.9 percent.
(9 VAC 5-80-110 and Condition 1 of 7/23/92 Permit)

4. Particulate emissions from the trim saws, Fesco handling, utility saws and edge saw (P-0003, P-0004, P-0006 - P-0008 and P-0030c) shall be controlled by a cyclone followed by a fabric filter. Each cyclone and fabric filter shall be provided with adequate access for inspection.
(9 VAC 5-80-110)

5. Visible emissions from the trim saws, Fesco handling, utility saws and edge saw stack (S-0003) and the board separators stack (S-0043) shall not exceed twenty (20) percent opacity except during one six-minute period in any one hour in which visible emissions shall not exceed thirty (30) percent opacity. This condition applies at all times except during startup, shutdown, or malfunction.
(9 VAC 5-80-110 and 9 VAC 5-50-80)

6. Visible emissions from the fabric filter baghouse exhaust vent (S-0030) controlling the emissions from the taper saw operation (P-0030a) and any other woodworking tools (P-0030b and P-0031) connected by transferring hoods and ductwork shall not exceed five (5) percent opacity.
(9 VAC 5-80-110, 9 VAC 5-50-80 and Condition 2 of 7/23/92 Permit)

B. Monitoring and Recordkeeping

1. The fabric filters (BH-0003, BH-0030 and BH-0043) shall be equipped with a device to continuously measure the differential pressure drop across the fabric filter. The device shall be installed in an accessible location and shall be maintained by the permittee such that it is in proper working order at all times.
(9 VAC 5-80-110)

2. An annual visual internal inspection shall be conducted on the cyclone (CC-0003) by the permittee to insure structural integrity. The permittee shall record:

   a. The date, time and name of the person performing each inspection;

   b. The results of the inspection; and

   c. The maintenance performed, if required.

   (9 VAC 80-110)

3. The permittee shall perform a weekly inspection of the trim saws, Fesco handling, utility saws and edge saw stack (S-0003). Each inspection shall include an observation of the presence of visible emissions and the pressure drop across the fabric filter. If during the inspection visible emissions are observed, a visible emission evaluation (VEE) shall be conducted in accordance with 40 CFR Part 60, Appendix A, EPA Method 9, unless corrective action is taken such that the stack resumes operation with no visible emissions. The VEE shall be conducted for a minimum of six (6) minutes. If any of the observations exceed twenty (20) percent, the VEE shall be conducted for a total of sixty (60) minutes. All observations, VEE results and corrective actions taken shall be recorded.
(9 VAC 5-80-110)

4. The permittee shall perform a weekly inspection of the taper and cant saws and accessory line Fesco handling stack (S-0030). The inspection shall include an observation of the presence of visible emissions and the pressure drop across the fabric filter. If during the inspection visible emissions are observed, a visible emission evaluation (VEE) shall be conducted in accordance with 40 CFR Part 60, Appendix A, EPA Method 9, unless corrective action is taken such that the stack resumes operation with no visible emissions. The VEE shall be conducted for a minimum of six (6) minutes. If any of the observations exceed five (5) percent, the

VEE shall be conducted for a total of sixty (60) minutes. All observations, VEE results and corrective action taken shall be recorded.
(9 VAC 5-80-110)

5. The permittee shall perform a weekly inspection of the board separators stack (S-0043). Each inspection shall include an observation of the presence of visible emissions and the pressure drop across the fabric filter. If during the inspection visible emissions are observed, timely corrective action is taken such that the stack resumes operation with no visible emissions. All observations and corrective actions taken shall be recorded.
(9 VAC 5-80-110)

6. The permittee shall maintain records of all emission data and operating parameters necessary to demonstrate compliance with this permit. The content and format of such records shall be arranged with the Director, Valley Region. These records shall include, but are not limited to:

   a. The pollutant-specific emission factors and the equations used to demonstrate compliance with Condition V.A.1.

   b. The log of annual inspections for the cyclone.

   c. Inspection records are required by Condition V.B.3, Condition V.B.4 and Condition V.B.5

   d. Manufacturer's or DEQ-approved documentation for the design collection efficiency of each fabric filter installed for the taper saw operation (P-0030a).

   These records shall be available on site for inspection by the DEQ and shall be current for the most recent five (5) years.
   (9 VAC 5-80-110)

C. Testing

If testing is conducted in addition to the monitoring specified in this permit, the permittee shall use the following test methods in accordance with procedures approved by the DEQ as follows:

Pollutant	Test Method (40 CFR Part 60, Appendix A)
PM/PM-10	EPA Method 5 or 17
Visible Emission	EPA Method 9

(9 VAC 5-80-110)

VI. Insignificant Emission Units

The following emission units at the facility are identified in the application as insignificant emission units under 9 VAC 5-80-720:

Emission Unit No.	Emission Unit Description	Citation	Pollutant(s) Emitted (9 VAC 5-80-720 B)	Rated Capacity (9 VAC 5-80-720 C)
P-0005	Glue Laminator	9 VAC 5-80-720 B	VOC, benzene, toluene xylene, ethylbenzene, hexane, hydrogen sulfide	
P-0028	Perlite Use Bin	9 VAC 5-80-720 B	PM/PM-10	
P-0035	Glue Holding Tank	9 VAC 5-80-720 B	VOC, benzene, toluene xylene, ethylbenzene, hexane, hydrogen sulfide	
P-0038	Glue Mix Tank	9 VAC 5-80-720 B	VOC, benzene, toluene xylene, ethylbenzene, hexane, hydrogen sulfide	
P-0040	Sealer Holding Tank	9 VAC 5-80-720 B	VOC, benzene, toluene xylene, ethylbenzene, hexane, hydrogen sulfide	
P-0041	Sealer Mix Tank	9 VAC 5-80-720 B	VOC, benzene, toluene xylene, ethylbenzene, hexane, hydrogen sulfide	
P-0042	Sealer Application	9 VAC 5-80-720 B	VOC, benzene, toluene xylene, ethylbenzene, hexane, hydrogen sulfide	
P-0044	Asphalt Emulsion Tank	9 VAC 5-80-720 B	VOC, benzene, toluene xylene, ethylbenzene, hexane, hydrogen sulfide	

Emission Unit No.	Emission Unit Description	Citation	Pollutant(s) Emitted (9 VAC 5-80-720 B)	Rated Capacity (9 VAC 5-80-720 C)
P-0045	Asphalt Storage Tank	9 VAC 5-80-720 B	VOC, benzene, toluene xylene, ethylbenzene, hexane, hydrogen sulfide	40,000 gallons
P-0046	Asphalt Emulsion Measuring Tank	9 VAC 5-80-720 B	VOC, benzene, toluene xylene, ethylbenzene, hexane, hydrogen sulfide	
P-0047	Propane Refueling of Forklifts	9 VAC 5-80-720 B	VOC	
P-0048	Perlite Rail Unloading	9 VAC 5-80-720 B	PM/PM10	
P-0049	Broke System (Process Water Recycling)	9 VAC 5-80-720 B	VOC, benzene, toluene xylene, ethylbenzene, hexane, hydrogen sulfide	
P-0051	Diesel Fire Pump	9 VAC 5-80-720 C	N/A	115 horsepower
P-0053	Pump House Heater	9 VAC 5-80-720 C	N/A	0.105 MMBtu/hr
P-0054	Four (4) Makeup Air Heaters	9 VAC 5-80-720 C	N/A	6 MMBtu/hr each
P-0055	Asphalt Tank Heater	9 VAC 5-80-720 C	N/A	0.8 MMBtu/hr
	Propane Storage Tank	9 VAC 5-80-720 B	VOC	
	Propane Vaporizer	9 VAC 5-80-720 C	N/A	<5MMBtu/hr
	Parts Washer	9 VAC 5-80-720 B	VOC	

These emission units are presumed to be in compliance with all requirements of the federal Clean Air Act as may apply. Based on this presumption, no monitoring, recordkeeping, or reporting shall be required for these emission units in accordance with 9 VAC 5-80-110.

VII. Permit Shield & Inapplicable Requirements

Compliance with the provisions of this permit shall be deemed compliance with all applicable requirements in effect as of the permit issuance date as identified in this permit. This permit shield covers only those applicable requirements covered by terms and conditions in this permit and the following requirements which have been specifically identified as being not applicable to this permitted facility:

Citation	Title of Citation	Description of Applicability
9 VAC 5 Chapter 40, Article 17	Emission Standards for Woodworking Operations (Rule 4-17)	Applicable to each woodworking operation as defined in 9 VAC 5-20-2260.
9 VAC 5 Chapter 40, Article 25	Emission Standards for Volatile Organic Compound Storage and Transfer Operations (Rule 4-25)	Applicable only to sources of volatile organic compounds in volatile organic compound emissions control areas designated in 9 VAC 5-20-206.
9 VAC 5 Chapter 40, Article 37	Emission Standards for Petroleum Liquid Storage and Transfer Operations (Rule 4-37)	Applicable to sources of volatile organic compounds in volatile organic compound emissions control areas designated in 9 VAC 5-20-206 and specified localities outside these areas.
40 CFR Part 60, Subpart K	Standards of Performance for Storage Vessels for Petroleum Liquids for Which Construction, Reconstruction, or Modification Commenced after June 11, 1973 and Prior to May 19, 1978	Applicable to each storage vessel for petroleum liquids which has a storage capacity greater than 151,412 liters (40,000 gallons).
40 CFR Part 60, Subpart Ka	Standards of Performance for Storage Vessels for Petroleum Liquids for Which Construction, Reconstruction, or Modification Commenced After May 18, 1978, and Prior to July 23, 1984.	Applicable to each storage vessel for petroleum liquids which has a storage capacity greater than 151,412 liters (40,000 gallons) and for which construction is commenced after May 18, 1978.
40 CFR Part 60, Subpart Kb	Standards of Performance for Volatile Organic Liquid Storage Vessels (including Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction, or Modification Commenced after July 23, 1984	Applicable to each storage vessel with capacity greater than or equal to 75 m^3 (19,812.9 gallons) that is used to store volatile organic liquids for which construction, reconstruction, or modification is commenced after July 23, 1984.

40 CFR Part 63, Subpart LLLLL	National Emissions Standards for Asphalt Processing and Asphalt Roofing Manufacturing	Applicable to each new or existing asphalt processing or asphalt roofing manufacturing facility that emits 10 tons a year or more of a single hazardous air pollutant or 25 tons a year or more of a combination of hazardous air pollutants.

Nothing in this permit shield shall alter the provisions of §303 of the federal Clean Air Act, including the authority of the administrator under that section, the liability of the owner for any violation of applicable requirements prior to or at the time of permit issuance, or the ability to obtain information by the administrator pursuant to §114 of the federal Clean Air Act, (ii) the Board pursuant to §10.1-1314 or §10.1-1315 of the Virginia Air Pollution Control Law or (iii) the Department pursuant to §10.1-1307.3 of the Virginia Air Pollution Control Law.
(9 VAC 5-80-140)

VIII. General Conditions

A. Federal Enforceability

All terms and conditions in this permit are enforceable by the administrator and citizens under the federal Clean Air Act, except those that have been designated as only state-enforceable.
(9 VAC 5-80-110 N)

B. Permit Expiration

This permit has a fixed term of five years. The expiration date shall be the date five years from the date of issuance. Unless the owner submits a timely and complete application for renewal to the Department consistent with the requirements of 9 VAC 5-80-80, the right of the facility to operate shall be terminated upon permit expiration.

1. The owner shall submit an application for renewal at least six months but no earlier than eighteen months prior to the date of permit expiration.

2. If an applicant submits a timely and complete application for an initial permit or renewal under this section, the failure of the source to have a permit or the operation of the source without a permit shall not be a violation of Article 1, Part II of 9 VAC 5 Chapter 80, until the Board takes final action on the application under 9 VAC 5-80-150.

3. No source shall operate after the time that it is required to submit a timely and complete application under subsections C and D of 9 VAC 5-80-80 for a renewal permit, except in compliance with a permit issued under Article 1, Part II of 9 VAC 5 Chapter 80.

4. If an applicant submits a timely and complete application under section 9 VAC 5-80-80 for a permit renewal but the Board fails to issue or deny the renewal permit before the end of the term of the previous permit, (i) the previous permit shall not expire until the renewal permit has been issued or denied and (ii) all the terms and conditions of the previous permit, including any permit shield granted pursuant to 9 VAC 5-80-140, shall remain in effect from the date the application is determined to be complete until the renewal permit is issued or denied.

5. The protection under subsections F 1 and F 5 (ii) of section 9 VAC 5-80-80 F shall cease to apply if, subsequent to the completeness determination made pursuant to section 9 VAC 5-80-80 D, the applicant fails to submit by the deadline specified in writing by the Board any additional information identified as being needed to process the application.

(9 VAC 5-80-80 B, C and F, 9 VAC 5-80-110 D and 9 VAC 5-80-170 B)

C. Recordkeeping and Reporting

1. All records of monitoring information maintained to demonstrate compliance with the terms and conditions of this permit shall contain, where applicable, the following:

   a. The date, place as defined in the permit, and time of sampling or measurements.

   b. The date(s) analyses were performed.

   c. The company or entity that performed the analyses.

   d. The analytical techniques or methods used.

   e. The results of such analyses.

   f. The operating conditions existing at the time of sampling or measurement.

   (9 VAC 5-80-110 F)

2. Records of all monitoring data and support information shall be retained for at least five years from the date of the monitoring sample, measurement, report, or application. Support information includes all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by the permit.
   (9 VAC 5-80-110 F)

3. The permittee shall submit the results of monitoring contained in any applicable requirement to DEQ no later than **March 1** and **September 1** of each calendar year. This report must be signed by a responsible official, consistent with 9 VAC 5-80-80 G, and shall include:

   a. The time period included in the report. The time periods to be addressed are January 1 to June 30 and July 1 to December 31.

   b. All deviations from permit requirements. For purposes of this permit, deviations include, but are not limited to:

      (1) Exceedance of emissions limitations or operational restrictions;

      (2) Excursions from control device operating parameter requirements, as documented by continuous emission monitoring, periodic monitoring, or compliance assurance monitoring which indicates an exceedance of emission limitations or operational restrictions; or,

(3) Failure to meet monitoring, recordkeeping, or reporting requirements contained in this permit.

c. If there were no deviations from permit conditions during the time period, the permittee shall include a statement in the report that "no deviations from permit requirements occurred during this semi-annual reporting period."

(9 VAC 5-80-110 F)

D. Annual Compliance Certification

Exclusive of any reporting required to assure compliance with the terms and conditions of this permit or as part of a schedule of compliance contained in this permit, the permittee shall submit to EPA and DEQ no later than **March 1** each calendar year a certification of compliance with all terms and conditions of this permit including emission limitation standards or work practices. The compliance certification shall comply with such additional requirements that may be specified pursuant to §114(a)(3) and §504(b) of the federal Clean Air Act. This certification shall be signed by a responsible official, consistent with 9 VAC 5-80-80 G, and shall include:

1. The time period included in the certification. The time period to be addressed is January 1 to December 31.

2. The identification of each term or condition of the permit that is the basis of the certification.

3. The compliance status.

4. Whether compliance was continuous or intermittent, and if not continuous, documentation of each incident of non-compliance.

5. Consistent with subsection 9 VAC 5-80-110 E, the method or methods used for determining the compliance status of the source at the time of certification and over the reporting period.

6. Such other facts as the permit may require to determine the compliance status of the source.

One copy of the annual compliance certification shall be sent to EPA at the following address:

Clean Air Act Title V Compliance Certification (3AP00)
U. S. Environmental Protection Agency, Region III
1650 Arch Street
Philadelphia, PA 19103-2029.

(9 VAC 5-80-110 K.5)

E. Permit Deviation Reporting

The permittee shall notify the Director, Valley Region, within four daytime business hours after discovery of any deviations from permit requirements which may cause excess emissions for more than one hour, including those attributable to upset conditions as may be defined in this permit. In addition, within 14 days of the discovery, the permittee shall provide a written statement explaining the problem, any corrective actions or preventative measures taken, and the estimated duration of the permit deviation. The occurrence should also be reported in the next semi-annual compliance monitoring report pursuant to General Condition VIII.C.3 of this permit.
(9 VAC 5-80-110 F.2 and 9 VAC 5-80-250)

F. Failure/Malfunction Reporting

In the event that any affected facility or related air pollution control equipment fails or malfunctions in such a manner that may cause excess emissions for more than one hour, the owner shall, as soon as practicable but no later than four daytime business hours after the malfunction is discovered, notify the Director, Valley Region, by facsimile transmission, telephone or telegraph of such failure or malfunction and shall within 14 days of discovery provide a written statement giving all pertinent facts, including the estimated duration of the breakdown. Owners subject to the requirements of 9 VAC 5-40-50 C and 9 VAC 5-50-50 C are not required to provide the written statement prescribed in this paragraph for facilities subject to the monitoring requirements of 9 VAC 5-40-40 and 9 VAC 5-50-40. When the condition causing the failure or malfunction has been corrected and the equipment is again in operation, the owner shall notify the Director, Valley Region.
(9 VAC 5-20-180 C)

G. Severability

The terms of this permit are severable. If any condition, requirement or portion of the permit is held invalid or inapplicable under any circumstance, such invalidity or inapplicability shall not affect or impair the remaining conditions, requirements, or portions of the permit.
(9 VAC 5-80-110 G.1)

H. Duty to Comply

The permittee shall comply with all terms and conditions of this permit. Any permit noncompliance constitutes a violation of the federal Clean Air Act or the Virginia Air Pollution Control Law or both and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or, for denial of a permit renewal application.
(9 VAC 5-80-110 G.2)

I. Need to Halt or Reduce Activity not a Defense

It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.
(9 VAC 5-80-110 G.3)

J. Permit Modification

A physical change in, or change in the method of operation of, this stationary source may be subject to permitting under State Regulations 9 VAC 5-80-50, 9 VAC 5-80-1100, 9 VAC 5-80-1790, or 9 VAC 5-80-2000 and may require a permit modification and/or revisions except as may be authorized in any approved alternative operating scenarios. (9 VAC 5-80-190 and 9 VAC 5-80-260)

K. Property Rights

The permit does not convey any property rights of any sort, or any exclusive privilege. (9 VAC 5-80-110 G.5)

L. Duty to Submit Information

1. The permittee shall furnish to the Board, within a reasonable time, any information that the Board may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the permittee shall also furnish to the Board copies of records required to be kept by the permit and, for information claimed to be confidential, the permittee shall furnish such records to the Board along with a claim of confidentiality.
(9 VAC 5-80-110 G.6)

2. Any document (including reports) required in a permit condition to be submitted to the Board shall contain a certification by a responsible official that meets the requirements of 9 VAC 5-80-80 G.
(9 VAC 5-80-110 K.1)

M. Duty to Pay Permit Fees

The owner of any source for which a permit under 9 VAC 5-80-50 through 9 VAC 5-80-300 was issued shall pay permit fees consistent with the requirements of 9 VAC 5-80-310 through 9 VAC 5-80-350. The actual emissions covered by the permit program fees for the preceding year shall be calculated by the owner and submitted to the Department by **April 15** of each year. The calculations and final amount of emissions are subject to verification and final determination by the Department.
(9 VAC 5-80-110 H and 9 VAC 5-80-340 C)

N. Fugitive Dust Emission Standards

During the operation of a stationary source or any other building, structure, facility, or installation, no owner or other person shall cause or permit any materials or property to be handled, transported, stored, used, constructed, altered, repaired, or demolished without taking reasonable precautions to prevent particulate matter from becoming airborne. Such reasonable precautions may include, but are not limited to, the following:

1. Use, where possible, of water or chemicals for control of dust in the demolition of existing buildings or structures, construction operations, the grading of roads, or the clearing of land;

2. Application of asphalt, water, or suitable chemicals on dirt roads, materials stockpiles, and other surfaces which may create airborne dust; the paving of roadways and the maintaining of them in a clean condition;

3. Installation and use of hoods, fans, and fabric filters to enclose and vent the handling of dusty material. Adequate containment methods shall be employed during sandblasting or other similar operations;

4. Open equipment for conveying or transporting material likely to create objectionable air pollution when airborne shall be covered or treated in an equally effective manner at all times when in motion; and,

5. The prompt removal of spilled or tracked dirt or other materials from paved streets and of dried sediments resulting from soil erosion.

(9 VAC 5-50-90)

O. Startup, Shutdown, and Malfunction

At all times, including periods of startup, shutdown, soot blowing, and malfunction, owners shall, to the extent practicable, maintain and operate any affected facility including associated air pollution control equipment in a manner consistent with air pollution control practices for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Board, which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source.
(9 VAC 5-50-20 E)

P. Alternative Operating Scenarios

Contemporaneously with making a change between reasonably anticipated operating scenarios identified in this permit, the permittee shall record in a log at the permitted facility a record of the scenario under which it is operating. The permit shield described in 9 VAC 5-80-140 shall extend to all terms and conditions under each such operating scenario. The terms and conditions of each such alternative scenario shall meet all applicable requirements including the requirements of 9 VAC 5 Chapter 80, Article 1.
(9 VAC 5-80-110 J)

Q. Inspection and Entry Requirements

The permittee shall allow DEQ, upon presentation of credentials and other documents as may be required by law, to perform the following:

1. Enter upon the premises where the source is located or emissions-related activity is conducted, or where records must be kept under the terms and conditions of the permit.

2. Have access to and copy, at reasonable times, any records that must be kept under the terms and conditions of the permit.

3. Inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit.

4. Sample or monitor at reasonable times substances or parameters for the purpose of assuring compliance with the permit or applicable requirements.

(9 VAC 5-80-110 K.2)

R. Reopening For Cause

The permit shall be reopened by the Board if additional federal requirements become applicable to a major source with a remaining permit term of three years or more. Such reopening shall be completed no later than 18 months after promulgation of the applicable requirement. No such reopening is required if the effective date of the requirement is later than the date on which the permit is due to expire, unless the original permit or any of its terms and conditions has been extended pursuant to 9 VAC 5-80-80 F.

1. The permit shall be reopened if the Board or the administrator determines that the permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of the permit.

2. The permit shall be reopened if the administrator or the Board determines that the permit must be revised or revoked to assure compliance with the applicable requirements.

3. The permit shall not be reopened by the Board if additional applicable state requirements become applicable to a major source prior to the expiration date established under 9 VAC 5-80-110 D.

(9 VAC 5-80-110 L)

S. Permit Availability

Within five days after receipt of the issued permit, the permittee shall maintain the permit on the premises for which the permit has been issued and shall make the permit immediately available to DEQ upon request.
(9 VAC 5-80-150 E)

T. Transfer of Permits

1. No person shall transfer a permit from one location to another, unless authorized under 9 VAC 5-80-130, or from one piece of equipment to another.
(9 VAC 5-80-160)

2. In the case of a transfer of ownership of a stationary source, the new owner shall comply with any current permit issued to the previous owner. The new owner shall notify the Board of the change in ownership within 30 days of the transfer and shall comply with the requirements of 9 VAC 5-80-200.
(9 VAC 5-80-160)

3. In the case of a name change of a stationary source, the owner shall comply with any current permit issued under the previous source name. The owner shall notify the Board of the change in source name within 30 days of the name change and shall comply with the requirements of 9 VAC 5-80-200.
(9 VAC 5-80-160)

U. Malfunction as an Affirmative Defense

1. A malfunction constitutes an affirmative defense to an action brought for noncompliance with technology-based emission limitations if the requirements of paragraph 2 of this condition are met.

2. The affirmative defense of malfunction shall be demonstrated by the permittee through properly signed, contemporaneous operating logs, or other relevant evidence that show the following:

   a. A malfunction occurred and the permittee can identify the cause or causes of the malfunction.

   b. The permitted facility was at the time being properly operated.

   c. During the period of the malfunction the permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards, or other requirements in the permit.

   d. The permittee notified the board of the malfunction within two working days following the time when the emission limitations were exceeded due to the malfunction. This notification shall include a description of the malfunction, any steps taken to mitigate emissions, and corrective actions taken. The notification may be delivered either orally or in writing. The notification may be delivered by electronic mail, facsimile transmission, telephone, or any other method that allows the permittee to comply with the deadline. This notification fulfills the requirements of 9 VAC 5-80-110 F 2 b to report promptly deviations from permit

requirements. This notification does not release the permittee from the malfunction reporting requirement under 9 VAC 5-20-180 C.

3. In any enforcement proceeding, the permittee seeking to establish the occurrence of a malfunction shall have the burden of proof.

4. The provisions of this section are in addition to any malfunction, emergency or upset provision contained in any applicable requirement.

(9 VAC 5-80-250)

V. Permit Revocation or Termination for Cause

A permit may be revoked or terminated prior to its expiration date if the owner knowingly makes material misstatements in the permit application or any amendments thereto or if the permittee violates, fails, neglects or refuses to comply with the terms or conditions of the permit, any applicable requirements, or the applicable provisions of 9 VAC 5 Chapter 80, Article 1. The Board may suspend, under such conditions and for such period of time as the Board may prescribe any permit for any of the grounds for revocation or termination or for any other violations of these regulations.
(9 VAC 5-80-190 C and 9 VAC 5-80-260)

W. Duty to Supplement or Correct Application

Any applicant who fails to submit any relevant facts or who has submitted incorrect information in a permit application shall, upon becoming aware of such failure or incorrect submittal, promptly submit such supplementary facts or corrections. An applicant shall also provide additional information as necessary to address any requirements that become applicable to the source after the date a complete application was filed but prior to release of a draft permit.
(9 VAC 5-80-80 E)

X. Stratospheric Ozone Protection

If the permittee handles or emits one or more Class I or II substances subject to a standard promulgated under or established by Title VI (Stratospheric Ozone Protection) of the federal Clean Air Act, the permittee shall comply with all applicable sections of 40 CFR Part 82, Subparts A to F.
(40 CFR Part 82, Subparts A-F)

Y. Asbestos Requirements

The permittee shall comply with the requirements of National Emissions Standards for Hazardous Air Pollutants (40 CFR 61) Subpart M, National Emission Standards for Asbestos as it applies to the following: Standards for Demolition and Renovation (40 CFR 61.145), Standards for Insulating Materials (40 CFR 61.148), and Standards for Waste Disposal (40 CFR 61.150).
(9 VAC 5-60-70 and 9 VAC 5-80-110 A.1)

Z. Accidental Release Prevention

If the permittee has more, or will have more than a threshold quantity of a regulated substance in a process, as determined by 40 CFR 68.115, the permittee shall comply with the requirements of 40 CFR Part 68.
(40 CFR Part 68)

AA. Changes to Permits for Emissions Trading

No permit revision shall be required under any federally approved economic incentives, marketable permits, emissions trading and other similar programs or processes for changes that are provided for in this permit.
(9 VAC 5-80-110 I)

BB. Emissions Trading

Where the trading of emissions increases and decreases within the permitted facility is to occur within the context of this permit and to the extent that the regulations provide for trading such increases and decreases without a case-by-case approval of each emissions trade:

1. All terms and conditions required under 9 VAC 5-80-110, except subsection N, shall be included to determine compliance.

2. The permit shield described in 9 VAC 5-80-140 shall extend to all terms and conditions that allow such increases and decreases in emissions.

3. The owner shall meet all applicable requirements including the requirements of 9 VAC 5-80-50 through 9 VAC 5-80-300.

(9 VAC 5-80-110 I)

SOURCE TESTING REPORT FORMAT

Cover

1. Plant name and location
2. Units tested at source (indicate Ref. No. used by source in permit or registration)
3. Tester; name, address and report date

Certification

1. Signed by team leader / certified observer (include certification date)
* 2. Signed by reviewer

Introduction

1. Test purpose
2. Test location, type of process
3. Test dates
* 4. Pollutants tested
5. Test methods used
6. Observers' names (industry and agency)
7. Any other important background information

Summary of Results

1. Pollutant emission results / visible emissions summary
2. Input during test vs. rated capacity
3. Allowable emissions
* 4. Description of collected samples, to include audits when applicable
5. Discussion of errors, both real and apparent

Source Operation

1. Description of process and control devices
2. Process and control equipment flow diagram
3. Process and control equipment data

* Sampling and Analysis Procedures

1. Sampling port location and dimensioned cross section
2. Sampling point description
3. Sampling train description
4. Brief description of sampling procedures with discussion of deviations from standard methods
5. Brief description of analytical procedures with discussion of deviation from standard methods

Appendix

* 1. Process data and emission results example calculations
2. Raw field data
* 3. Laboratory reports
4. Raw production data
* 5. Calibration procedures and results
6. Project participants and titles
7. Related correspondence
8. Standard procedures

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* Not applicable to visible emission evaluations.